



PATENT APPLICATION  
Navy Case No. 83,636

2856 #3  
MV

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Lee  
Serial No.: 10/054,945  
Filed: January 25, 2002  
For: ULTRASONIC FORCE DIFFERENTIATION ASSAY

Examiner: Not Yet Assigned  
Group Art Unit: 2856

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Honorable Commissioner of Patents  
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**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

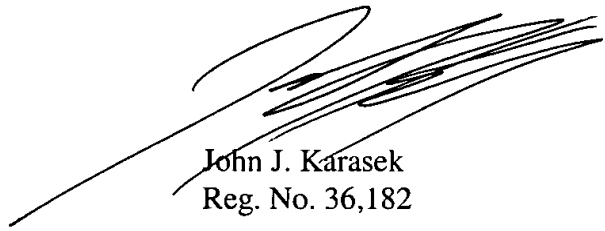
Pursuant to the provisions of 37 C.F.R. § 1.97 et seq., the applicant submits the most relevant documents of which applicant is currently aware. The documents are identified on the attached form PTO-1449 and/or in an accompanying Statement of Relevance.

To the extent available, copies of the patents and or other documents cited are enclosed. If available and to the extent needed, English translations of pertinent portions of any non-English language references are also enclosed.

By this submission, applicants do not assert that a search of the prior art was made or that the patents and documents cited constitute all relevant prior art. The references cited constitute only that information now known to the applicants which, in the reasonable opinion of the applicants, is relevant to the claimed invention. The Examiner is requested to consider these documents, and to indicate such in any forthcoming office action.

Kindly charge any additional fees due, or credit any overpayment of fees, to Deposit Account  
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Respectfully submitted,

A handwritten signature in black ink, consisting of several overlapping, fluid strokes that form a cursive representation of the name John J. Karasek.

John J. Karasek  
Reg. No. 36,182

Prepared by:  
Jane M.. Barrow  
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Substitute for form 1449A/PTO

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of

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Application Number

10/054.945

Filing Date

January 25, 2002

**First Named Inventor**

**Gil U. Lee**

**Group Art Unit**

N/A
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**Examiner Name**

Unknown

Attorney Docket Number

NC 83.636

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		4,484,569		Driller et al	03/01/1982	
		4,467,653		Jean-Pierre Turbe	03/26/1982	
		4,523,122		Tone et al	03/16/1984	
		4,571,087		David F. Ranney	03/22/1983	
		4,575,485		Sizto et al	08/29/1983	
		4,615,984		Ronald L. Stroker	02/23/1984	
		5,343,109		Thomas Mockl	04/08/1993	
		5,406,851		Yan Li	08/02/1993	
		5,445,971		Thomas E. Rohr	12/01/1994	
		5,666,325		Belser et al	07/31/1995	
		5,735,280		Sherman et al	09/09/1996	
		5,770,461		Sakazume et al	08/30/1995	
		5,779,892		Miltenyi et al	11/15/1996	
		5,853,994		Gopinathan et al	12/05/1996	
		5,912,182		Coakley et al	09/08/1997	
		5,921,929		Goll et al	09/26/1997	
		6,086,821		Gil U. Lee	03/29/1999	
		6,368,553		Gil U. Lee	04/19/2000	

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## FOREIGN PATENT DOCUMENTS

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January 25, 2002

**Gil U. Lee**

Unknown

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		MAKOTO HAGA, TAKESADA SHIMURA, TOHRU NAKAMURA, YURIKO KATO, YASUO SUZUKI, Effect of Ultrasonic Irradiation on the Dissociation of Antigen-Antibody Complexes. Chem. Pharm. Bull. 1987, 9 pages, Vol. 35, 3822 to 3830
		ROULHWAI CHEN, LITAI WENG, N. CHUNG SIZTO, BERNARDITA OSORIO, CHEN-JUNG HSU, RICHARD RODGERS, DAVID J. LITMAN, Ultrasound-Accelerated Immunoassay, as Exemplified by Enzyme Immunoassay of Choriogonadotropin, CLIN. CHEM., Vol. 30, No. 9, 1984 1446 to 1451
		NERYS E. THOMAS, W. TERENCE COAKLEY, Measurement of Antigen Concentration by an Ultrasound-Enhanced Latex Immunoagglutination Assay, Ultrasound in Med. & Biol., Vol. 22, No. 9, 1996, 1277 to 1284
		PETER J. TARCHA, WILLIAM BINDSEIL, VICTOR P. CHU, Absorption-Enhanced Solid-Phase Immunoassay Method Via Water-Swellable Poly(Acrylamide) Microparticles, Journal of Immunological Methods, 125, 1989, 243 to 249

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